

*need reference list updated  
did anybody go to full OK?*

*Barry*

*Atkinson*

*Jake*

*MDA*

**Turbine Coordination Meeting  
December 11-12, 2001**

**Outage start date**

Unit off line after peak Friday night 3-1-2002.

Work start Saturday day shift 3-2-2002

**End date**

Available for full load, Monday 4-1-2002

Work cards in Friday 3-29-2002

28 work days available

**Personnel**

**Maintenance**

- |                                      |  |
|--------------------------------------|--|
| • Mike Alley                         | Project Manager                              |
| <del>Gary Jenkins</del> Craig Teeple | Day shift Supervisor                         |
| • Will Lovell                        | Night shift Supervisor <i>/ Gary Jenkins</i> |
| • Richard Houston                    | Maintenance Engineer                         |
| • Kelly Cloward                      | Maintenance Planner                          |

**Technical Services**

- |                |                      |
|----------------|----------------------|
| • James Nelson | Supervising Engineer |
| • Phong Do     | QA/QC Day shift      |
| • Dave Spence  | QA/QC Night shift    |

**Manpower**

- Shift hours
- Crewman

**Work scope**

**HP Turbine**

- HP turbine upgrade
- N1, N2 retractable packing *HP + IP*
- Tops on/Tops off alignment *hydraulic nuts*
- Extraction pipe welding - our contractor

**IP Turbine**

- IP overhaul
- 8<sup>th</sup> stage installation *spare not concentric?*
- Boresonic inspection
- Steam path audit *Ramon Gerry*
- Low speed rotor balance *Ramon*
- Diaphragm retractable packing installation

**Front Standard & EHC**

- PMG overhaul
- MOP - Replace the check valve disk
- Replacement/overhaul MTV, MLV, ETV, ELV, MTSV, ORSV, OTSV, ARDV's, ETSV, ORP, MTP
- Repair low speed switches in front standard
- EHC line up

Valves

- Overhaul Main Stop Valves
- pull seats on #2 and #4 for steam chest inspection
- Overhaul Main Control Valves
- send control pacs out for inspection/repair
- overhaul control pac spring cans on site
- Valve tightness test on shutdown and start up
- Overhaul Combined Reheat/Intercept valves
- Overhaul Equalizer Valve
- Overhaul Ventilator Valve
- Install steam lead pressure taps on CV3 and CV4 (north end top and bottom leads) with CV4 pipe run to the PT cabinet. *1st stage press*
- Weld cap the existing 1<sup>st</sup> stage pressure sensor line

Couplings

- Control rotor coupling machining- rabbet fit.
- "A" coupling line bore
- eliminate the current rabbet fit
- install new sleeves, use existing bolts *hydraulic*

Generator

- Vacuum/Pressure test
- Grind collector rings-turning gear
- Remove upper-outer end bells for inspection/repair
- Possible repair of stator leak
- MAGIC robotic inspection of stator and rotor
- Electrical testing

Boiler Feed Pumps, BFPT and Valves

- Overhaul BFP 2FWA-P-1B, install volute w/ performance upgrade
- Install new bearing housings
- NDE and thickness mapping of BFP 2FWA-P-1B nozzles and barrel
- Replace MBV-10
- Overhaul BFPT controls on both A & B
- ~~Torque meter installation on BFP 2FWA-P-1A?~~

*BFPT ground straps*Contractors

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| • Alstom                            | Technical direction HP            |
| • React? <i>Lasoff Air Services</i> | HP/IP Alignment                   |
| • MD & A <i>Martin</i>              | Technical direction IP and valves |
| • Continental Field Systems         | Onsite machine work               |
| • Midwest Turbine Inspection        | Sandblasting                      |
| • Mannings USA                      | Induction bolt heating            |
|                                     | Shell closing system              |
| • Reinhart & Associates             | NDE                               |
|                                     | Rotor Boresonic inspection/NDE    |
| • General Electric                  | Collector ring grinding           |
|                                     | MAGIC inspection                  |

*Journal to journal  
clearance 4/1000  
8 TR*

SCE  
EHC lineup  
Turbocar

ferro-arm

retractable packing

- MD & A Vacuum/pressure test
- MD & A Electrical testing
- Prime Machine Diaphragm/steam path repair
- FlowServe Low speed balance IP rotor
- BFP NDE and Mapping

#### Safety Orientation

#### Schedule

- Delivery dates
- Mobilization
- Contractor start dates
- Time line/Critical Path

#### Onsite Machining Requirements

- Equipment
- Delivery

Attn Kelly Cloward

#### Laydown Drawings

- Load bearing areas identified
- Rotor stands
- Parts storage

#### Rigging Procedures

- Drawings
- Rigging
- Specialty tools

#### Manufacturing Update

#### Shipping

#### Spares Availability

#### Packers

#### Technical Issues

- Installation key steps and outline
- HP/IP alignment
- HP extraction line work scope and welding procedure
- Current turbine vibration
- Bearing alignment on B coupling
- Valve card and wiring change out procedure and drawing
- Others

opening measurements

Atkinson - Mantel Manual

#### Domestic

#### Cleaning

Spence  
Labette

Marshall

Bellows Creek

Stereo

Brunner Island

madridlo?

trans alky

Preoutage Survey

Performance Testing

Office Needs

- Computers
- Telephones
- Printers/copiers/fax

Other